EXHIBIT 66

Admissions Part II
Subtitle

February 14, 2012

Office of Institutional Research

Summary

- Athletes and Legacies explain the difference in raw admit rates for Asian and White applicants.
- Asian applicants have higher average ratings and test scores (excluding the personal rating).
- Differences exist in the raw admit rates of Asian and White students with similar test scores and academic indices. Even top scores and ratings don't guarantee admission.
- Personal rating is important in models of the admissions process and drive some of the demographic differences we see.

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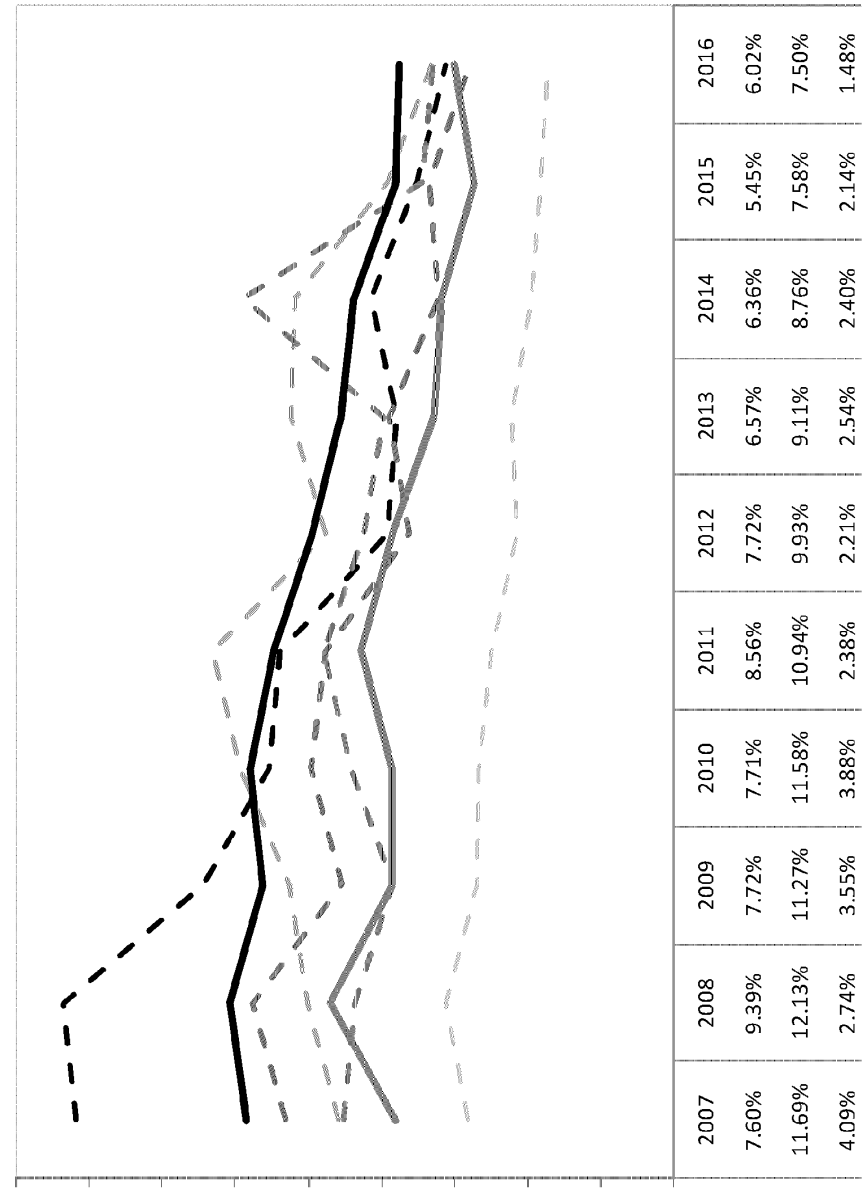
PRELIMINARY DRAFT

Admit Rates by Ethnicity, Classes of 2007-2016



	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Admit Rate -White	7.60%	9.39%	7.72%	7.71%	8.56%	7.72%	6.57%	6.36%	5.45%	6.02%
Admit Rate -Asian	11.69%	12.13%	11.27%	11.58%	10.94%	9.93%	9.11%	8.76%	7.58%	7.50%
Difference	4.09%	2.74%	3.55%	3.88%	2.38%	2.21%	2.54%	2.40%	2.14%	1.48%

Non-Legacy, Non-Athlete Admit Rates by Ethnicity, Classes of 2007-2016

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Admit Rate -White	7.21%	8.90%	7.34%	7.34%	8.09%	7.21%	6.00%	5.96%	4.93%	5.34%
Admit Rate -Asian	8.75%	8.79%	8.30%	8.26%	7.46%	7.17%	6.46%	6.25%	5.32%	5.09%
Difference	1.54%	-0.12%	0.96%	0.93%	-0.64%	-0.04%	0.46%	0.29%	0.38%	-0.25%

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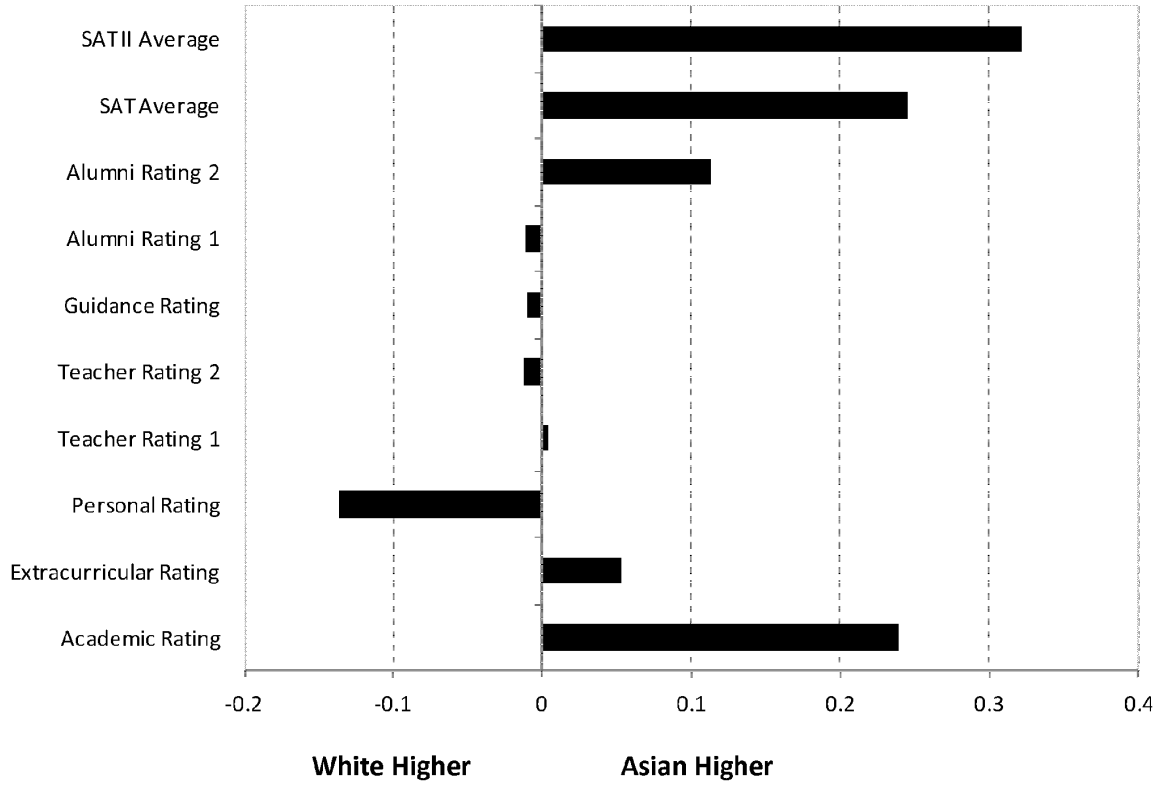
Difference in Average Test Scores and Ratings for White and Asian Applicants



Notes:

- Excludes legacies and athletes.
- OIR doesn't have all ratings for all years, so number of applicants differs for each rating/test score.
- Differences are in standard deviations.

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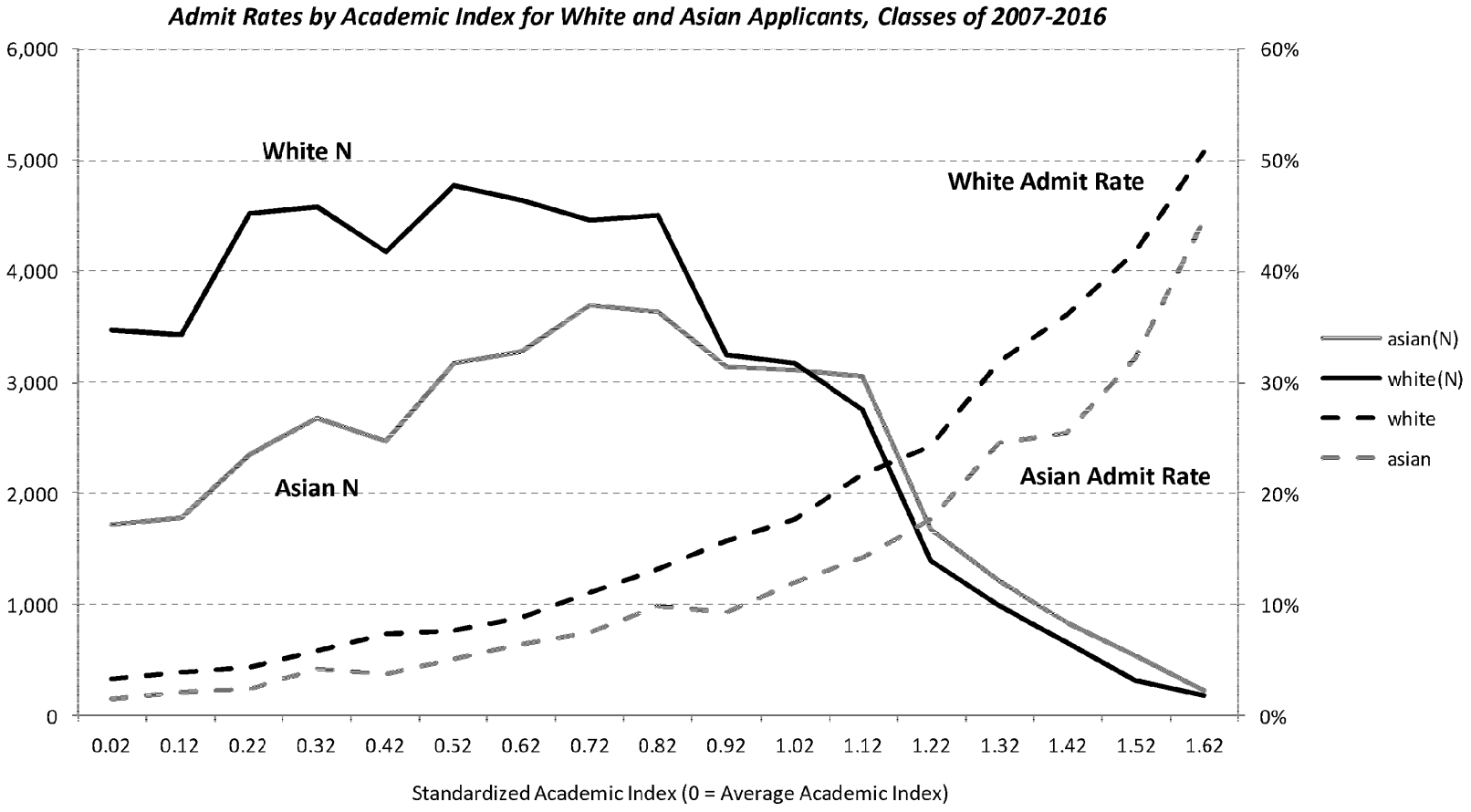

Notes:

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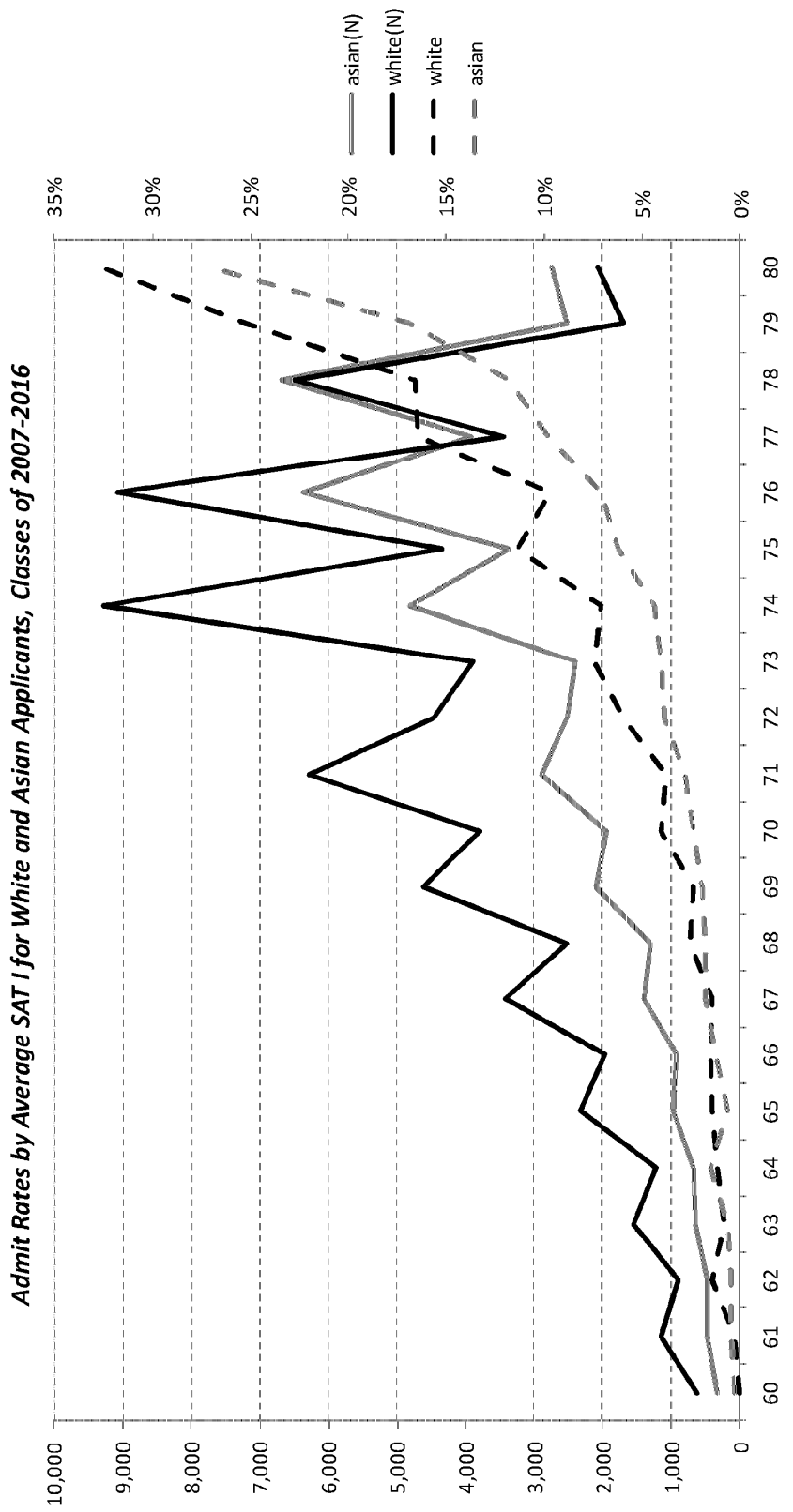
- Academic Index doesn't account for everything in admissions process. Even top rated students barely have a 50% admit rate.

PRELIMINARY DRAFT



Notes:

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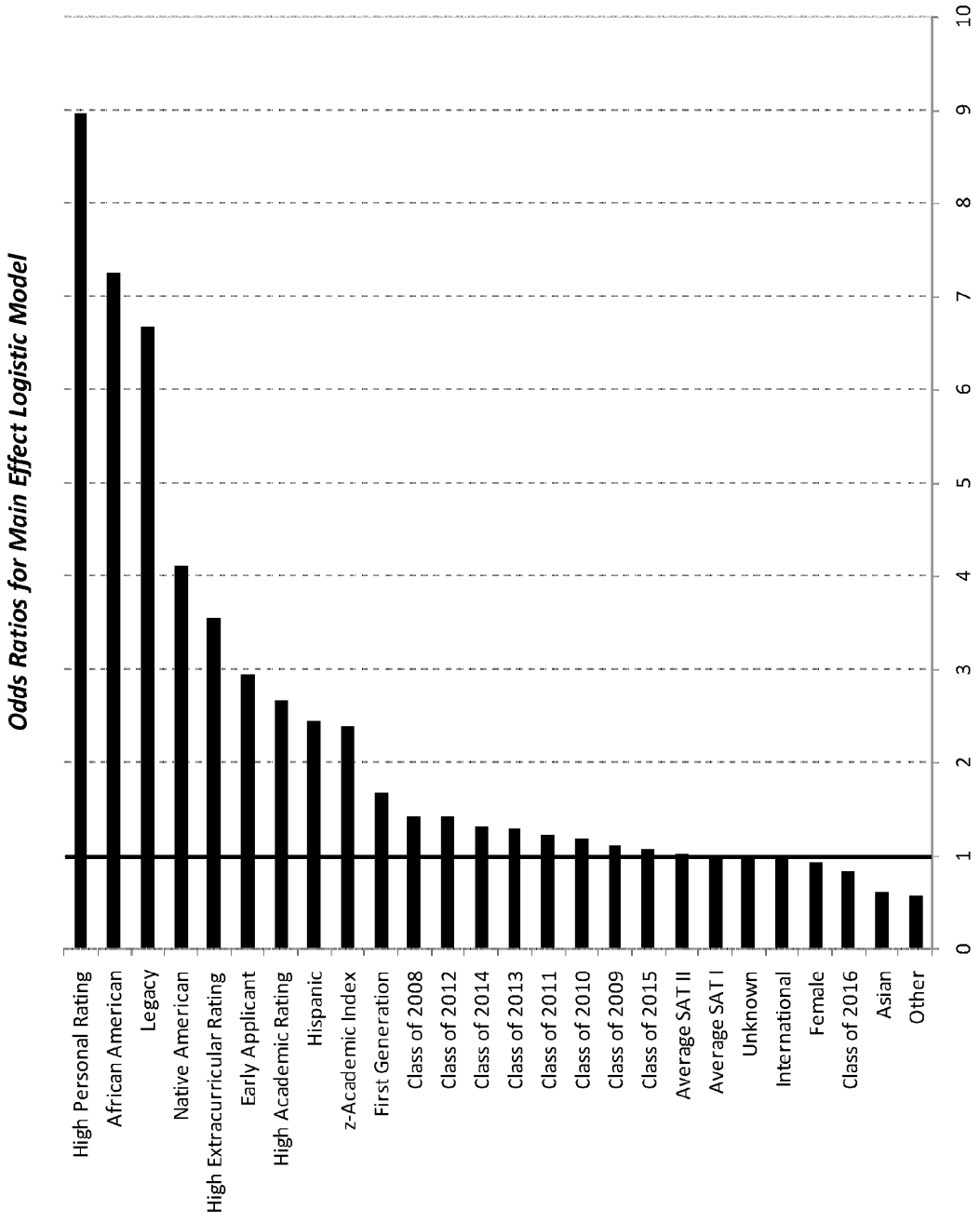
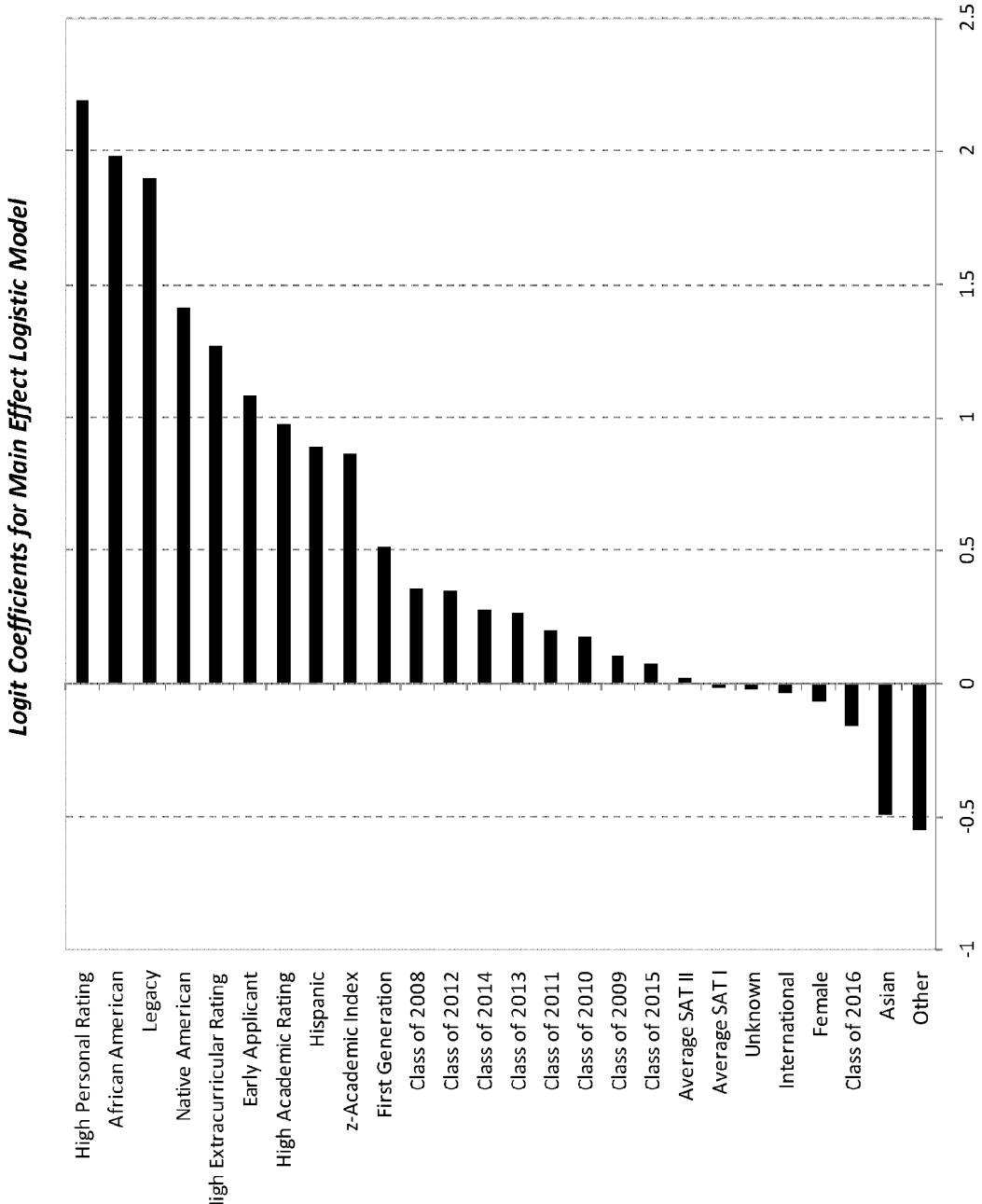
- Spikiness in distribution due to rounding averages to integers.


Odds Ratios for Main Effect Logistic Model
High Personal Rating
African American
Legacy
Native American
High Extracurricular Rating
Early Applicant
High Academic Rating
Hispanic
z-Academic Index
First Generation
Class of 2008
Class of 2012
Class of 2014
Class of 2013
Class of 2011
Class of 2010
Class of 2009
Class of 2015
Average SAT II
Average SAT I
Unknown
International
Female
Class of 2016
Asian
Other
0
1
2
3
4
5
6
7
8
9
10

Model


Logit Coefficients for Main Effect Logistic Model
2.5
2
1.5
1
0.5
0
-0.5
-1
High Personal Rating
African American
Legacy
Native American
High Extracurricular Rating
Early Applicant
High Academic Rating
Hispanic
z-Academic Index
First Generation
Class of 2008
Class of 2012
Class of 2014
Class of 2013
Class of 2011
Class of 2010
Class of 2009
Class of 2015
Average SAT II
Average SAT I
Unknown
International
Female
Class of 2016
Asian
Other

Text

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Methods

Goal: Using various admissions ratings, how well can we approximate admit rates by race/ethnicity and the demographic composition of the admitted students pool?

Strategy:

- Fit a series of basic logistic regression models.
- Generate fitted probabilities of admissions - given an applicant's characteristics how likely are they to be admitted (0-1)?
- For each class, select the 2100 applicants with the highest probability of admissions as our simulated admitted class.
- Examine resulting demographics and admit rates by ethnicity.

Notes:

- Students with no academic index are excluded from this analysis. N = , admit rate =

Model 1: Academic only	Model 2: Add legacy and athlete	Model 3: Add personal and extracurricular	Model 4: Add demographics
Academic Index	Academic Index	Academic Index	Academic Index
Academic Rating	Academic Rating	Academic Rating	Academic Rating
	legacy	legacy	legacy
	athlete	athlete	athlete
		Personal Rating	Personal Rating
		Extracurricular Rating	Extracurricular Rating
			Gender
			Ethnicity

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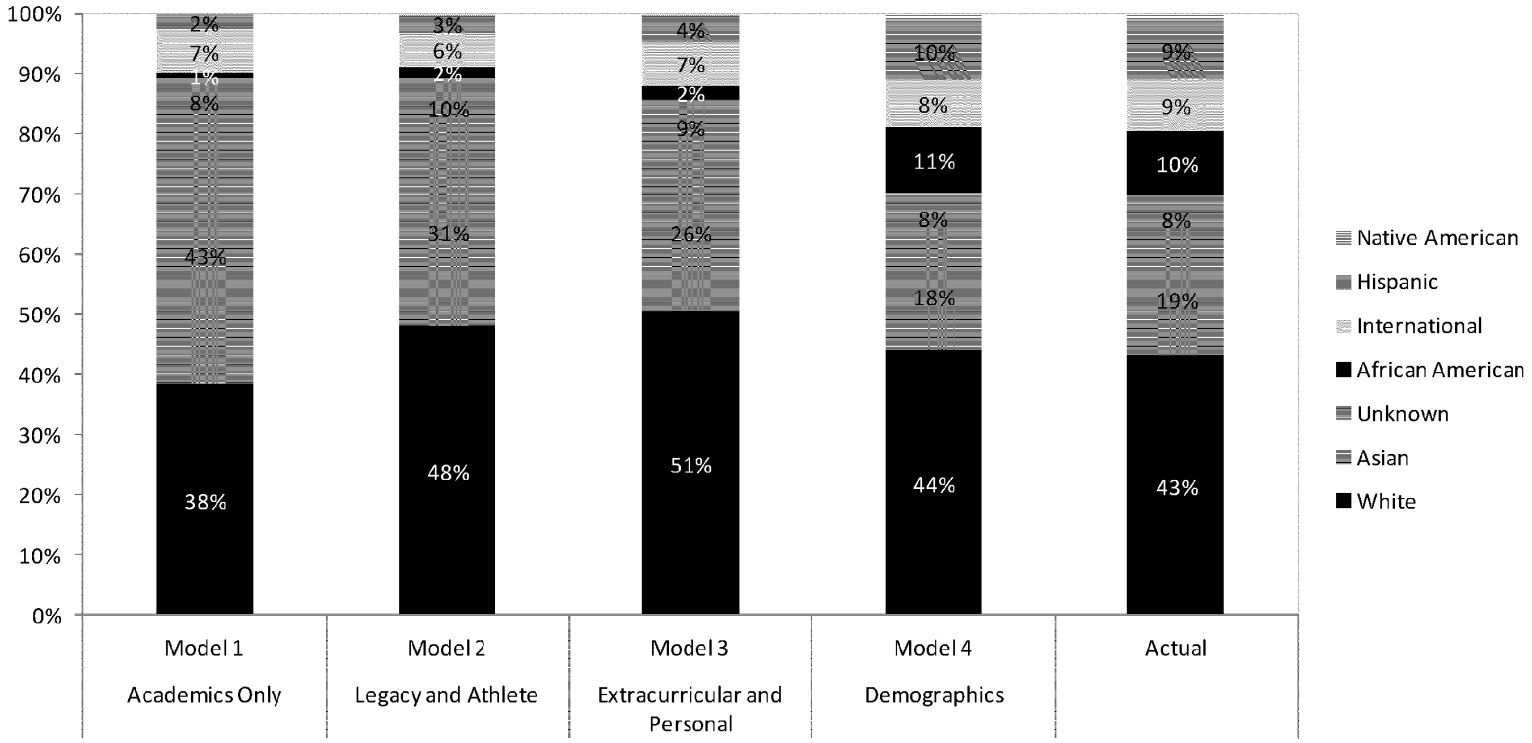
Projected Admitted Student Pools



	Academics Only	Legacy and Athlete	Extracurricular and Personal	Demographics	
	Model 1	**Model 2**	**Model 3**	**Model 4**	**Actual**
Asian	43.04%	31.40%	25.99%	17.97%	18.66%
African American	0.67%	1.83%	2.36%	11.12%	10.46%
International	7.27%	5.86%	7.39%	7.68%	8.90%
Hispanic	2.42%	2.62%	4.07%	9.83%	9.46%
Native American	0.21%	0.32%	0.41%	1.21%	1.23%
Unknown	8.02%	9.93%	9.14%	8.11%	8.09%
White	38.37%	48.03%	50.63%	44.08%	43.21%

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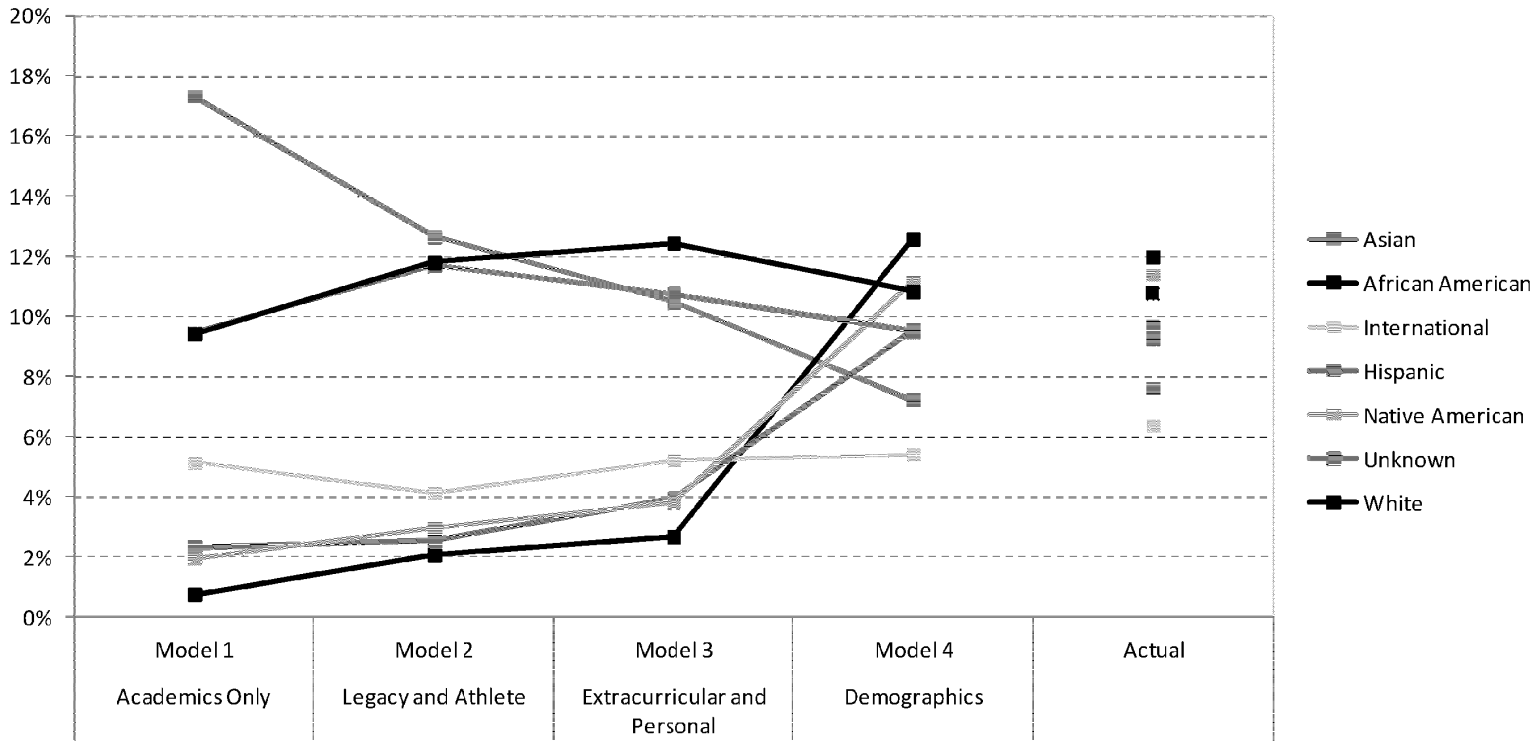
Projected Admit Rates



	Academics Only	Legacy and Athlete	Extracurricular and Personal	Demographics	
	Model 1	**Model 2**	**Model 3**	**Model 4**	**Actual**
Asian	17.35%	12.66%	10.48%	7.24%	7.63%
African American	0.75%	2.07%	2.67%	12.59%	12.00%
International	5.13%	4.14%	5.22%	5.42%	6.37%
Hispanic	2.34%	2.53%	3.94%	9.51%	9.27%
Native American	1.97%	2.98%	3.81%	11.17%	11.43%
Unknown	9.45%	11.70%	10.77%	9.56%	9.67%
White	9.43%	11.81%	12.45%	10.84%	10.77%

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PRELIMINARY DRAFT

Conclusions

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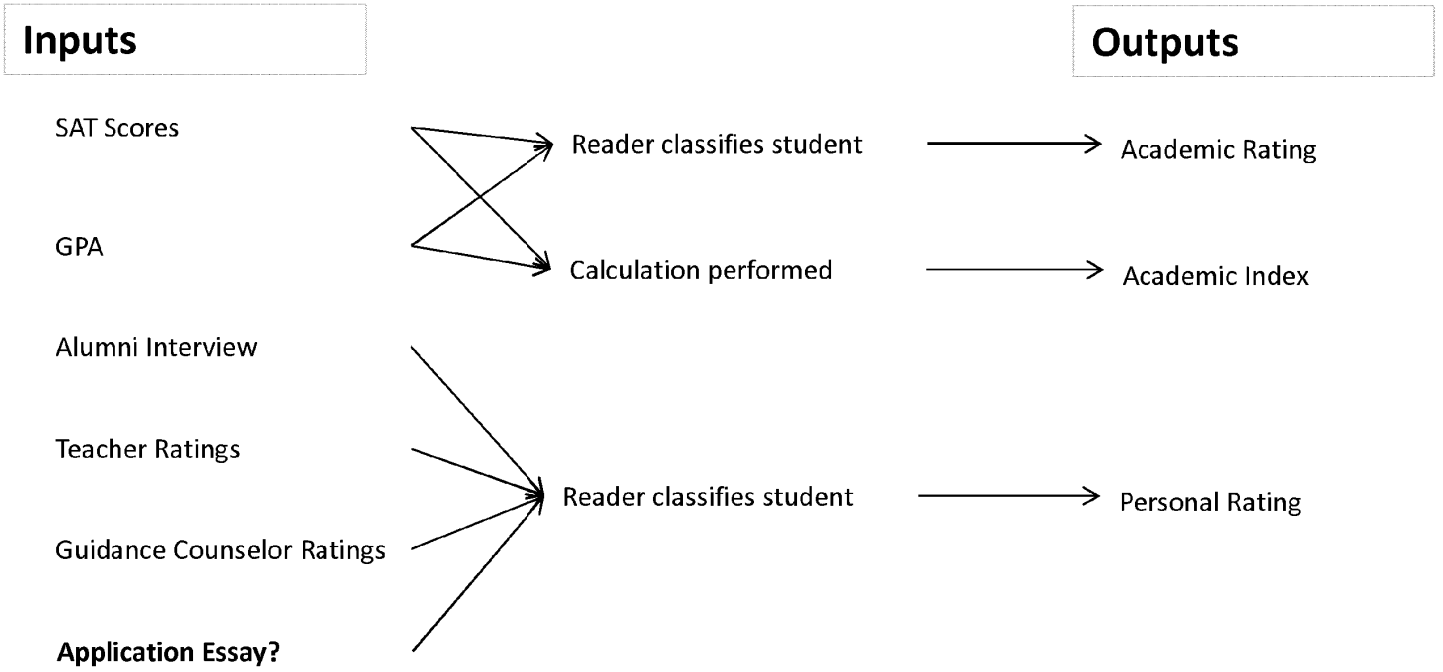
Possible Explanations

The Personal Rating: Numeric value doesn't capture full picture of applicant



Academic Index	SAT Scores + GPA	Accounts for 98% of the variation in Academic Index. Academic Index is a weighted average.
Academic Rating	SAT Scores + GPA	Accounts for 70% of the variation in Academic Rating. Can't explain some of the variation because Academic Rating data doesn't include the granuality provided by + and -. Also potentially some noise due to readers
Personal Rating	School Support + Alumni Interviews	Accounts for 20% of the variation in Personal Rating. Inputs of Teacher Evaluations, Guidance Counselor Evaluations, and Alumni Interviews don't fully explain how Personal Ratings are assigned. Don't have any numeric rating of personal statement.

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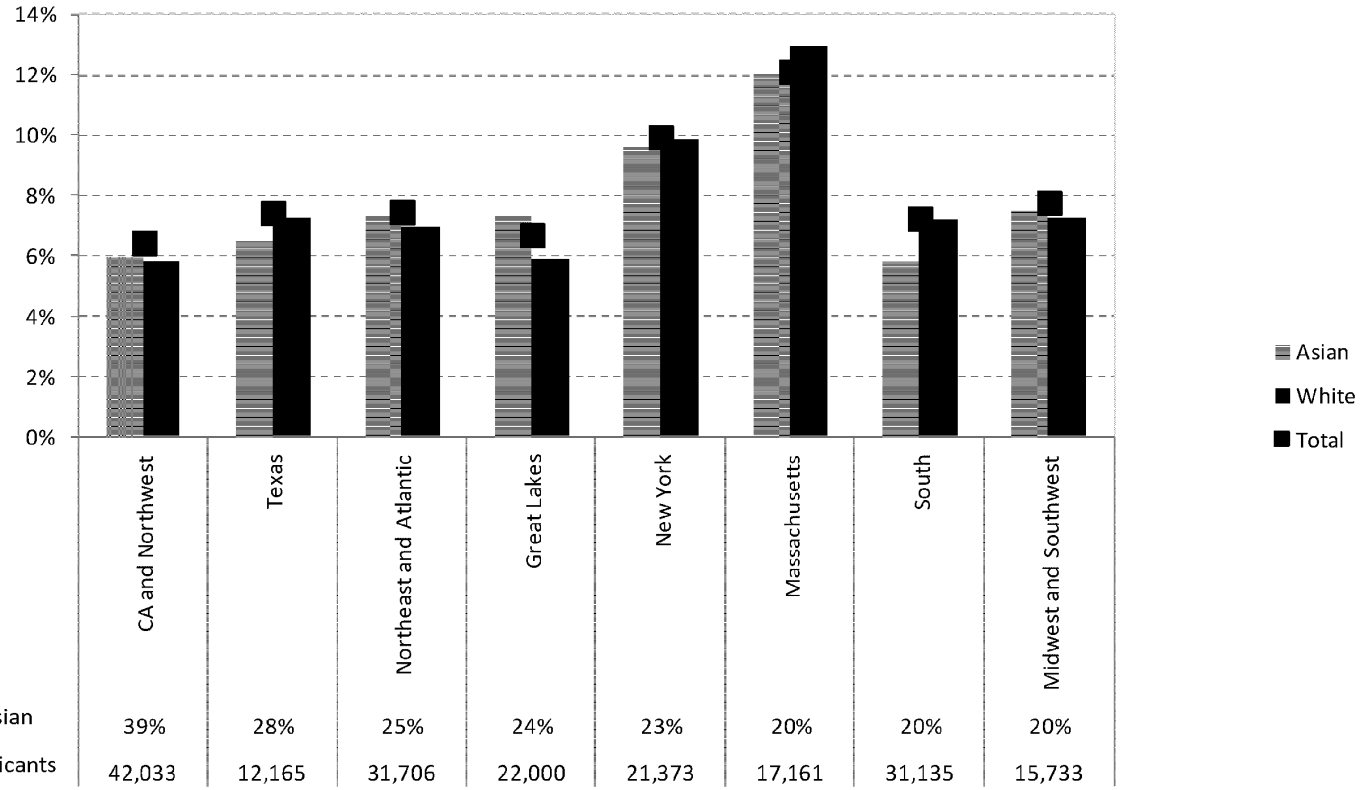
Dockets: Differences in Admit Rates by Region not Explained by Athletes and Legacies

Admit Rates by Region for White and Asian Non-Athlete, Non-Legacy Applicants, Classes of 2007-2016



	CA and Northwest	Texas	Northeast and Atlantic	Great Lakes	New York	Massachusetts	South	Midwest and Southwest
Percent Asian	39%	28%	25%	24%	23%	20%	20%	20%
Total Applicants	42,033	12,165	31,706	22,000	21,373	17,161	31,135	15,733

Notes:

- Excludes legacies and athletes.

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Other Possibilities

- Information lost by not recording plusses and minuses.
- Yield considered when admitting students?
- Other factors not used in models:
  - Children faculty/staff
  - Search for socioeconomic diversity
  - High school quality/opportunities open to student
  - Dockets

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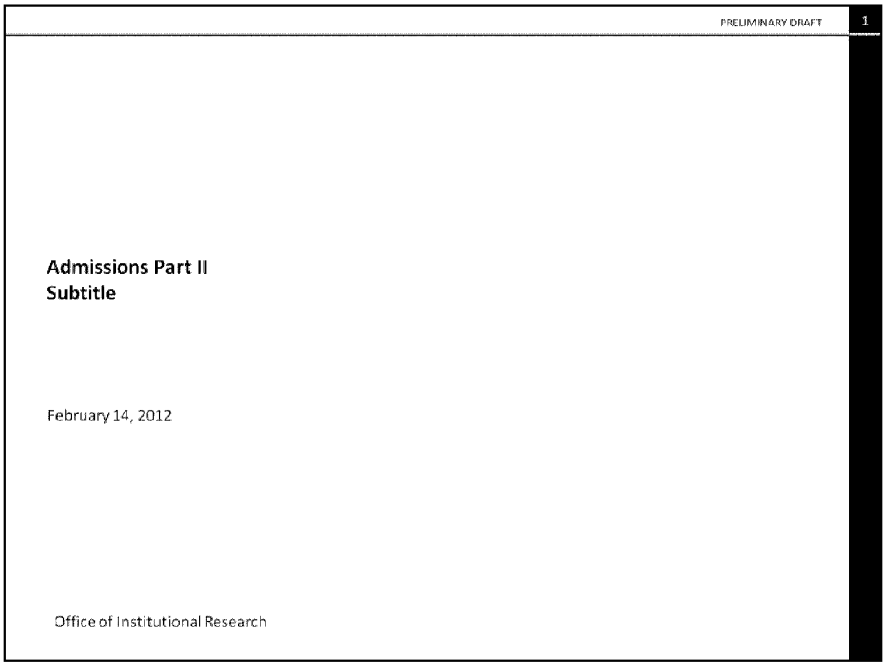

Framing from Drew

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Summary

- Athletes and Legacies explain the difference in raw admit rates for Asian and White applicants.
- Asian applicants have higher average ratings and test scores (excluding the personal rating).
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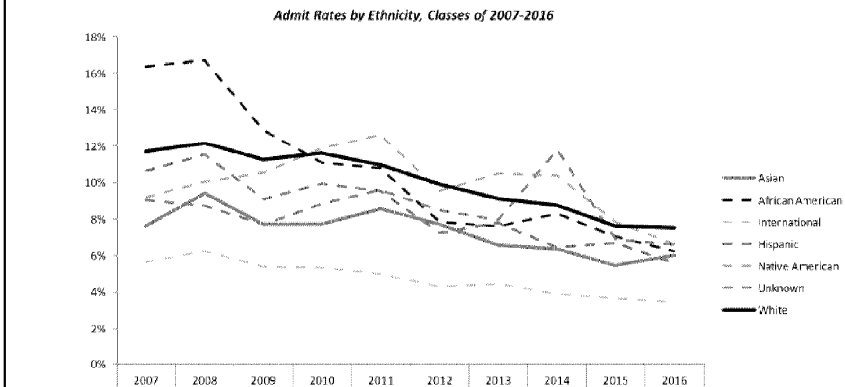

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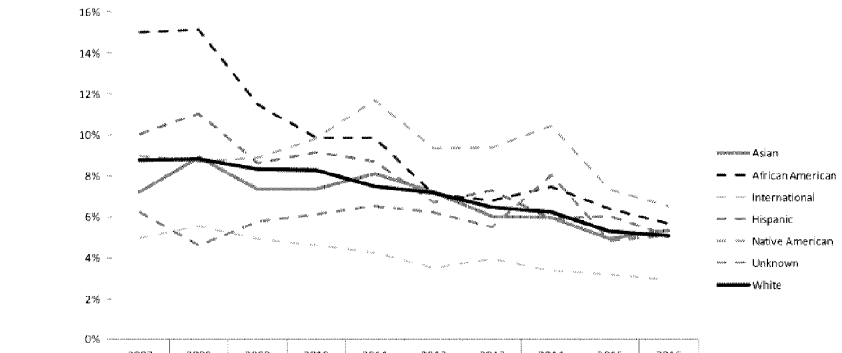
Difference	4.09%	2.74%	3.55%	3.88%	2.38%	2.21%	2.54%	2.40%	2.14%	1.48%

Non-Legacy, Non-Athlete Admit Rates by Ethnicity, Classes of 2007-2016



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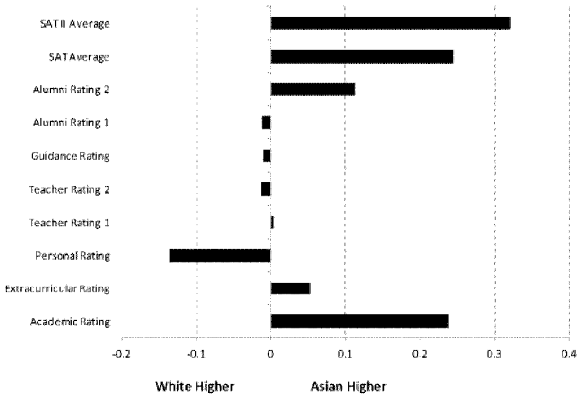
Difference	1.54%	-0.12%	0.96%	0.93%	-0.64%	-0.04%	0.46%	0.29%	0.38%	-0.25%

Difference in Average Test Scores and Ratings for White and Asian Applicants



Notes:
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- Differences are in standard deviations.

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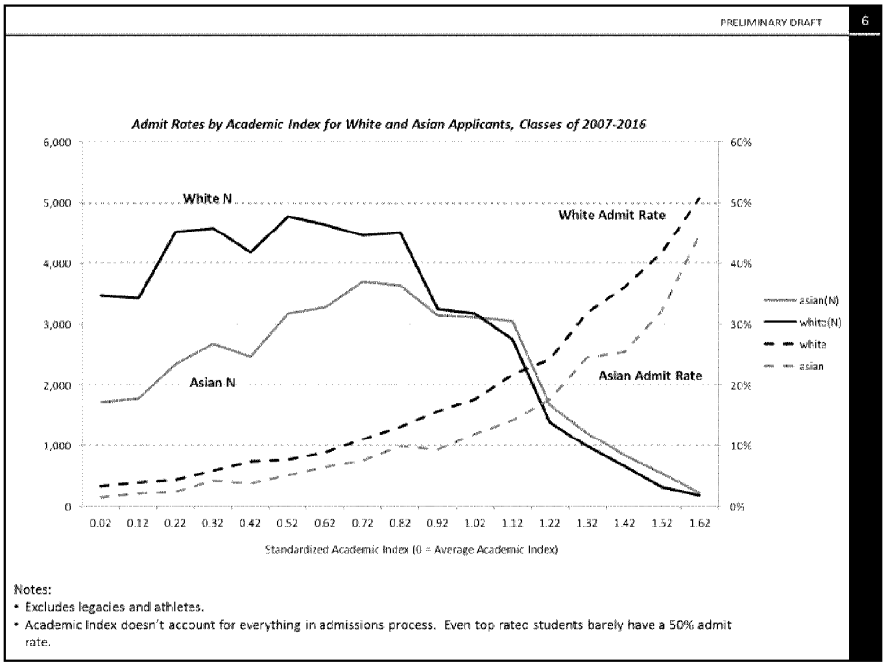
PRELIMINARY DRAFT
6
Admit Rates by Academic Index for White and Asian Applicants, Classes of 2007-2016
6,000
5,000
4,000
3,000
2,000
1,000
0
60%
50%
40%
30%
20%
10%
0%
White N
White Admit Rate
Asian N
Asian Admit Rate
asian(N)
white(N)
white
asian
0.02 0.12 0.22 0.32 0.42 0.52 0.62 0.72 0.82 0.92 1.02 1.12 1.22 1.32 1.42 1.52 1.62
Standardized Academic Index (0 = Average Academic Index)
Notes:
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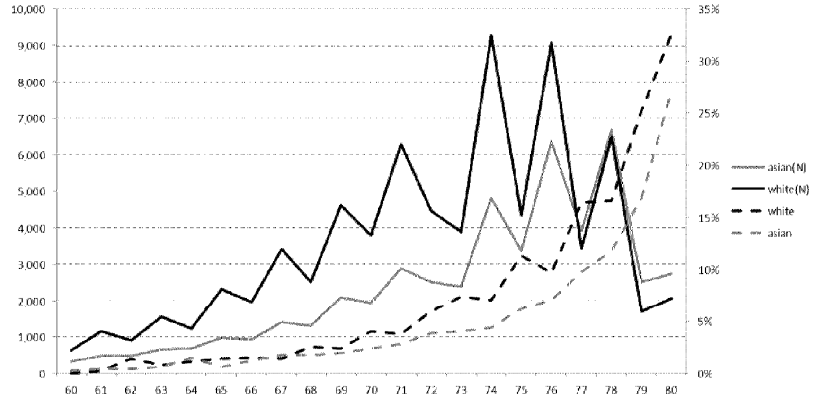
• Academic Index doesn't account for everything in admissions process. Even top ratec students barely have a 50% admit rate.

Admit Rates by Average SAT I for White and Asian Applicants, Classes of 2007-2016



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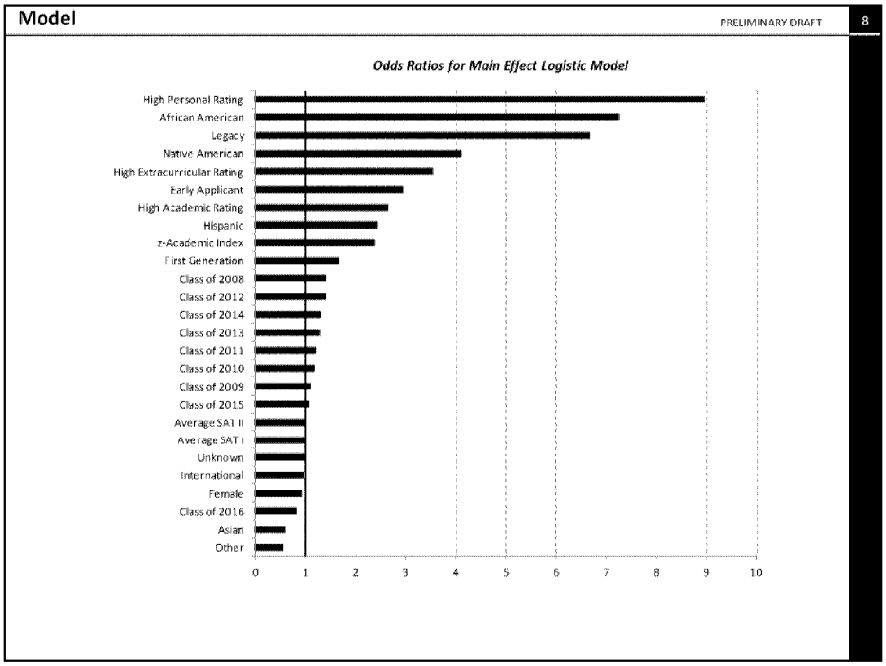

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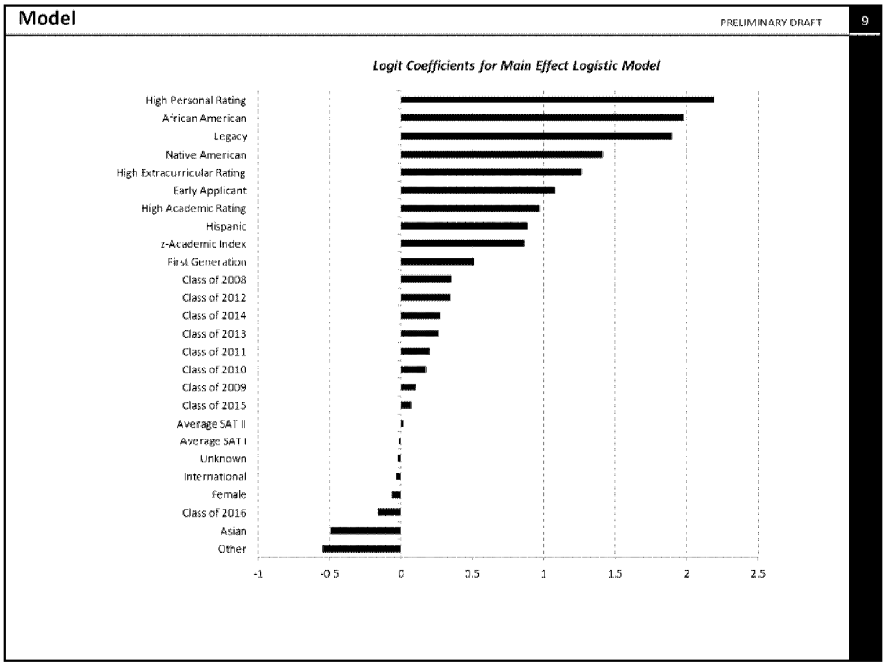

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Methods

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Text

Goal: Using various admissions ratings, how well can we approximate admit rates by race/ethnicity and the demographic composition of the admitted students pool?

Strategy:

- Fit a series of basic logistic regression models.
- Generate fitted probabilities of admissions - given an applicant's characteristics how likely are they to be admitted (0-1)?
- For each class, select the 2100 applicants with the highest probability of admissions as our simulated admitted class.
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Notes:

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	athlete	athlete	athlete
		Personal Rating	Personal Rating
		Extracurricular Rating	Extracurricular Rating
			Gender
			Ethnicity

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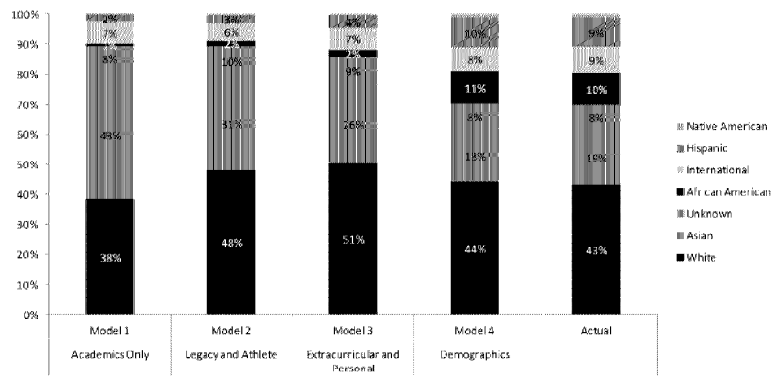
Projected Admitted Student Pools

PRELIMINARY DRAFT 11



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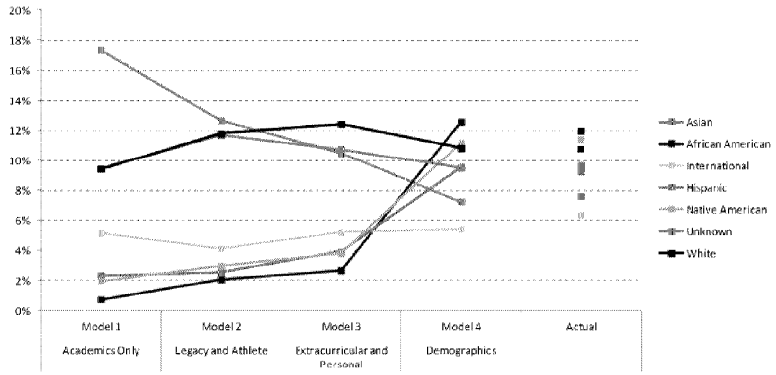
International	7.27%	5.86%	7.39%	7.68%	8.90%
Hispanic	2.42%	2.62%	4.07%	9.83%	9.46%
Native American	0.21%	0.32%	0.41%	1.21%	1.23%
Unknown	8.02%	9.93%	9.14%	8.11%	8.09%
White	38.37%	48.03%	50.63%	44.08%	43.21%

Projected Admit Rates

PRELIMINARY DRAFT 12



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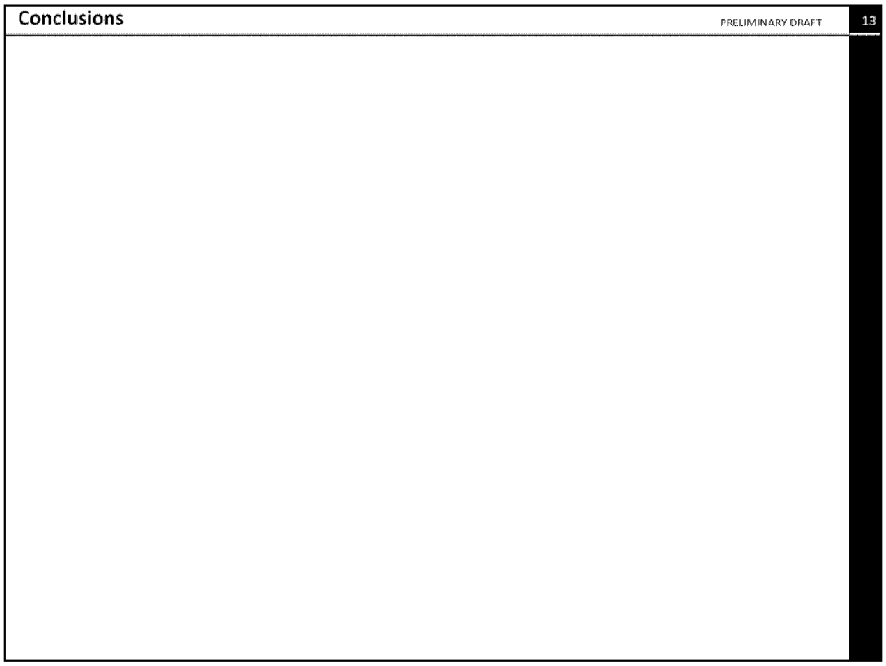

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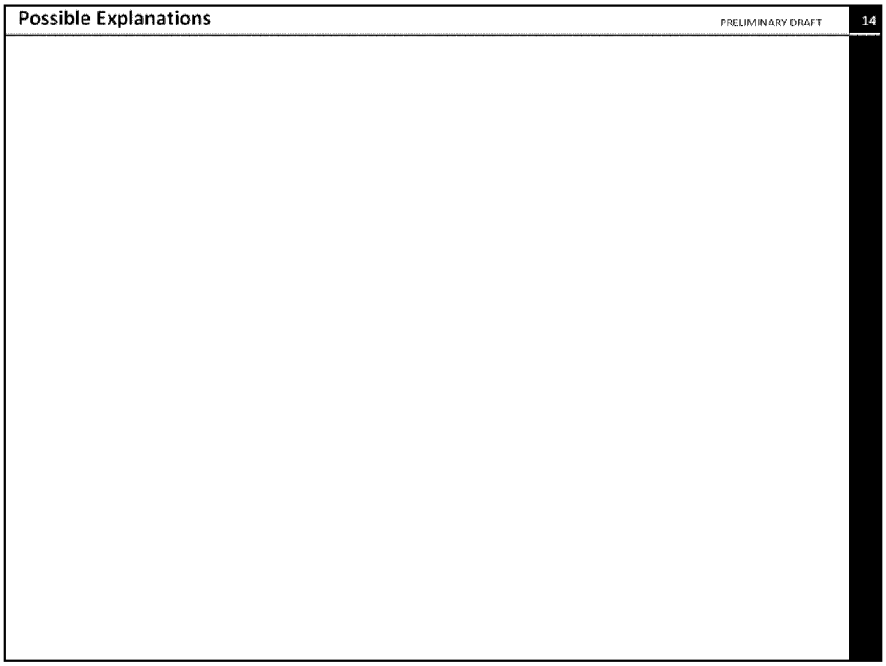

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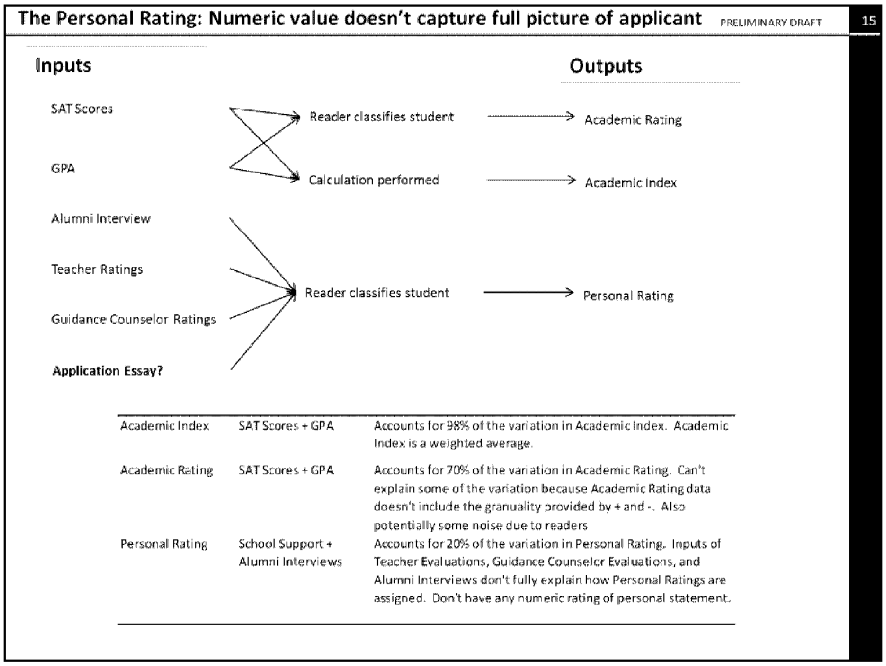

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Dockets: Differences in Admit Rates by Region not Explained by Athletes and Legacies

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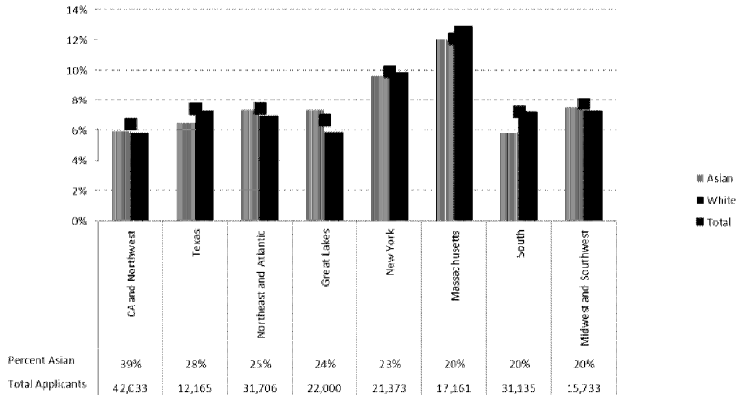

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Other Possibilities

- Information lost by not recording plusses and minuses.
- Yield considered when admitting students?
- Other factors not used in models:
  - Children faculty/staff
  - Search for socioeconomic diversity
  - High school quality/opportunities open to student
  - Dockets

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